Kai Ho Technology

Product Specification

Kai Ho Tech Project Name: KH-0010

Kai Ho Tech Product Part Number: EA00100000A/EA00190000A

Description:

- D86xH37 Highly Conductive Extruded Aluminum Heat Sink
- EA00100000A is for Anodized Natural Color and EA00190000A is for Anodized Black Color
- Standard height 37mm, other heights on request.

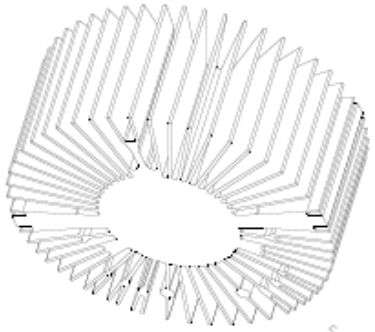
Issue Date: 2018/09/06

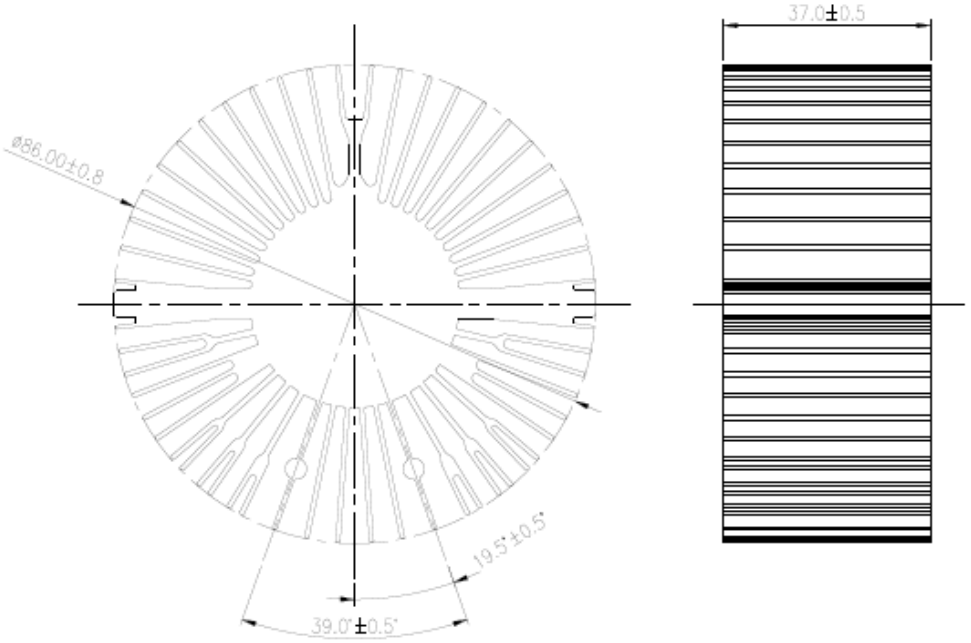
Rev: A

Drawing

NOTES:
1.SINK MATERIAL :EN AW--AL6063-T5
2.SINK FINISH : Anodized Natural Color (E-A001000004)/Anodized Black Color (E-A001900004).
3.ROHS COMPLIANT
4.Burr height must be under 0.05mm.
5.★dimension need to do critical control.

REVISIONS				
LTR	DATE	UPDATE DESCRIPTION	SIGN	EC NO.
△				





MATERIAL: -L6063-T5	Kai Ho Technology	
METHOD: EN10 / COLOR: [redacted]	DESCRIPTION: [redacted]-0010	
0-20 ± 0.1 21-40 ± 0.2 41-100 ± 0.3 101-200 ± 0.4 ANGLES = ±0.1°	PART NO.: E-001000004/E-001900004	
	UNIT: mm	VER: A
SHEET SIZE: A4 / SCALE: 1:1 / SHEET: 1 OF 1	DESIGNED/DATE: J.T. 2018-08-[redacted]	CHECKED/DATE: J.T. 2018-08-[redacted] / APPROVED/DATE: J.T. 2018-08-[redacted]

Project: KH-0010 Part Number: EA00100000A/EA00190000A	
Application	LED Lighting
Dimension	D86xH37mm
Weight	260g
Thermal Resistance Rca (°C/W)	1.75
Power Pt (W)	28.6
Material	AL 6063-T5
Thermal Grease/PAD	None

- The Thermal Resistance Data Rca is determined with a calibrated dummy heater of 30mmx30mm central placed on the heat sink, Ta 40°C and an open environment. Reference Data @Tc to ambient temperature Ta rise (Tc-Ta) 50 °C
- Dissipated Thermal Power Pt (W). Reference Data @Tc to ambient temperature Ta rise (Tc-Ta) 50 °C

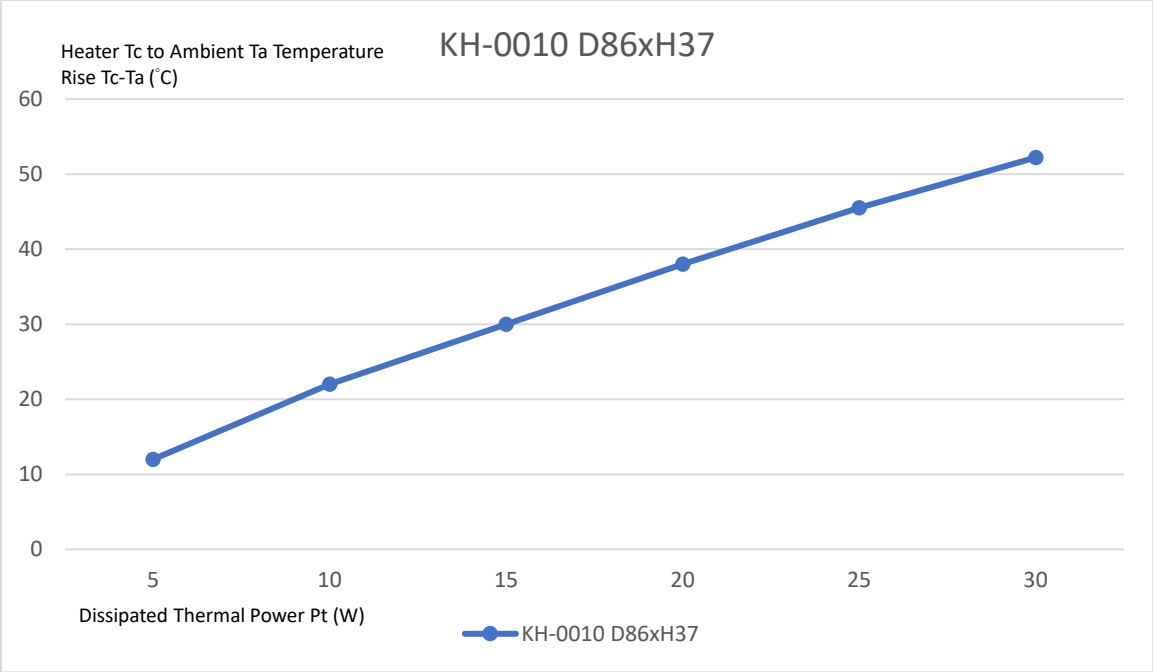
  The maximal dissipated thermal power Pt (W) need to be tested based on real case temperature Tc or junction temperature Tj and related to the targeted ambient temperature where the customer lighting fixture been applied.

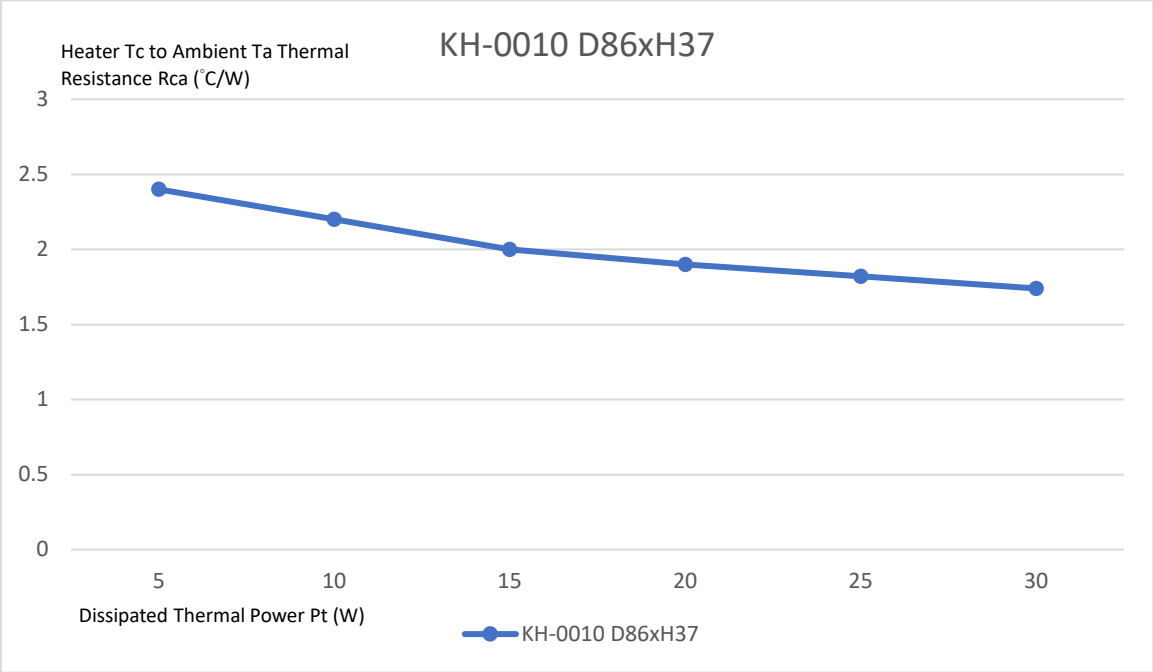
  LED Module Dissipated Thermal Power (Pt) is not the same as the LED electrical power (Pe).

  Pt= Pe * (1-Lighting Efficiency % of LED Module)

Thermal Data

Pt=Pe * (1-Lighting Efficiency %) PS: LED Packages Heat Loss Rate (Heat Need to be Dissipated) can be found in each LED Packages Maker DS.		Heater Tc to Ambient Ta Thermal Resistance Rca (°C/W)	Heater Tc to Ambient Ta Temperature Rise Tc-Ta (°C)
		KH-0010 D86xH37	KH-0010 D86xH37
Dissipated Thermal Power Pt (W)	5	2.4	12
	10	2.2	22
	15	2.0	30
	20	1.90	38
	25	1.82	45.5
	30	1.74	52.2


KH-0010 D86xH37
Heater Tc to Ambient Ta Temperature Rise Tc-Ta (°C)
60
50
40
30
20
10
0
5
10
15
20
25
30
Dissipated Thermal Power Pt (W)
KH-0010 D86xH37


KH-0010 D86xH37
Heater Tc to Ambient Ta Thermal Resistance Rca (°C/W)
3
2.5
2
1.5
1
0.5
0
5
10
15
20
25
30
Dissipated Thermal Power Pt (W)
KH-0010 D86xH37